



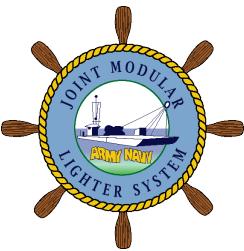
JOINT MODULAR LIGHTER SYSTEM (JMLS) PROGRAM BRIEF

for

JLOTS R&D SYMPOSIUM

30 Jan 01

**DAN McCLUSKEY
ACQUISITION PROGRAM
DEPUTY
PROGRAM MANAGER
NAVFACENGCOM**



AGENDA

- ◆ **JMLS PROGRAM OVERVIEW**
- ◆ **JMLS ACTD UPDATE**
- ◆ **JMLS TRANSITION UPDATE**
- ◆ **JMLS ACQUISITION PROGRAM UPDATE**

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JMLS PROGRAM OVERVIEW

“Service-interoperable causeway lighterage system capable of assembly and operation (in a loaded condition) through Sea State 3 (3.5'- 5' waves, 16 knot winds)”

- JLOTS MNS Definition

Warping Tug (WT)



Causeway Ferry (CF)



Roll On/ Roll Off Discharge Facility (RRDF)



AIR CUSHIONED VEHICLE LANDING PLATFORM (ACVLAP)



Floating Causeway (FC)



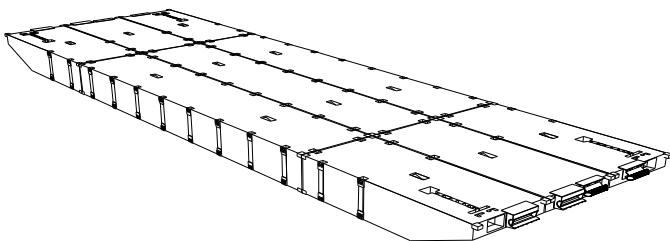
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CURRENT LIGHTERAGE SYSTEMS

Basic Building Block used in LOTS/JLOTS Operations

U. S. Army Modular Causeway System (MCS)

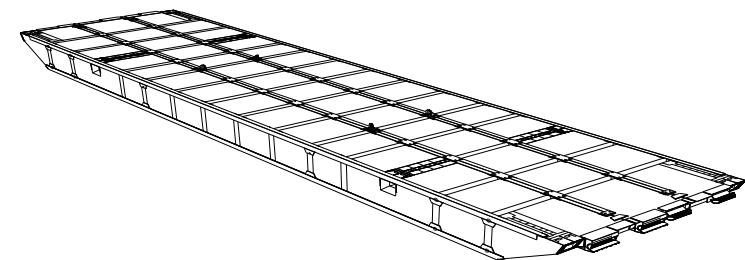


In use: 1990 to present

Size: 24- x 80- x 4.5-ft

Significant Feature: Intermodal transport
Truly modular system

U. S. Navy Lightered (NL) Causeway System



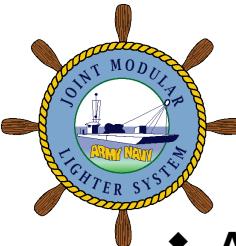
In use: World War II to
present

Size: 21- x 92- x 5-ft

Significant Feature: Proven
system



LIMITED TO SEA STATE 2
INTEROPERABLE END TO END
NL SERVICE LIFE IS 13 YEARS
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JMLS PROGRAM OVERVIEW

- ◆ **Advanced Concept Technology Demonstration**

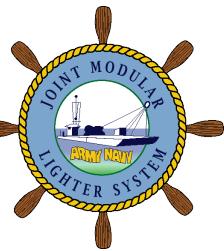
- OSD, Navy, Army sponsored
- Design, fabricate, and test ISO compatible modular lighterage system
- Technical Manager NAVFAC
- Operational Manager USJFCOM
- \$28M RDT&E
- Mar 98-Dec 00

- ◆ **Transition from ACTD to Acquisition Program**

- ◆ **Acquisition Program**

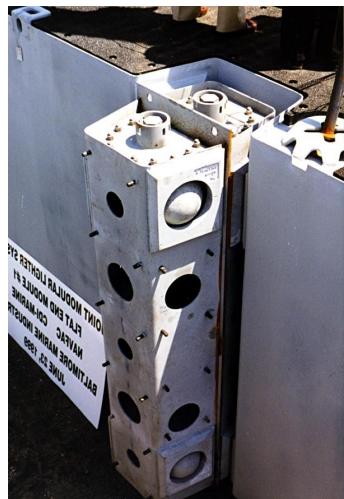
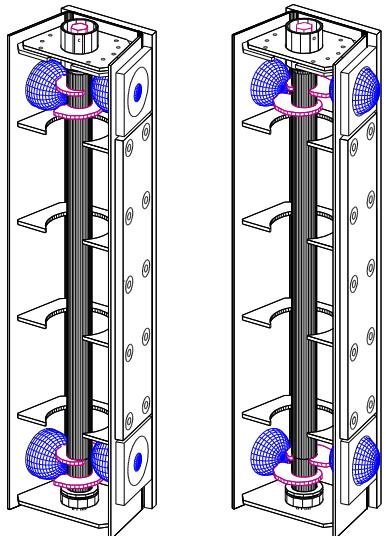
- Joint Navy and Army program
- Procure Joint lighterage system to replace existing Army & Navy systems.
- \$650M Procurement dollars
- FY03 - FY09
- Likely Acquisition Category II (ACAT II)
- Expected Milestone Decision Authority - DASN(SHIPS)

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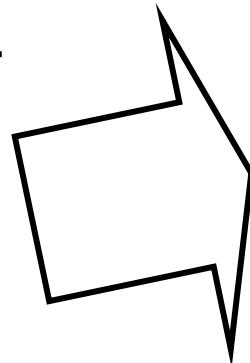


JMLS ACTD

JMLS CONNECTOR SYSTEM



KEY TECHNOLOGY FOR SS3



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JMLS ACTD UPDATE

Action since Jan 00 :

ACTD Contractor Test and Demo program (Jan- Jun 00)

ACTD Prototype Reliability and Safety Discrepancies Corrected: (June-Sept 00)

- Engine reliability increased from less than 10% to greater than 90%
- Implemented module structural strength modifications
- Implemented connector stability hardware

Government Test and Evaluation Program: (July- Dec 00)

- Sea State 3 certifications for subsystem capabilities (15 of 19 achieved)

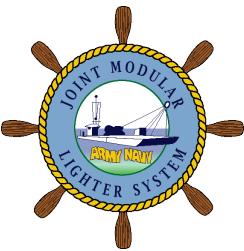
Decision to change from 8' wide module to 24' wide module

ACTD Oversight Committee Meeting (Dec 00)

- DUSD direction to cancel MUA and complete ACTD effective 11 Dec 00
 - Change in requirement (wider module)
 - Concern over achieving remaining SS3 certifications
 - System performance of 8' module
- Four remaining T&E events with JFCOM sponsorship
- Program begins Transition to formal Joint Acquisition Program

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JMLS ACTD KTR TEST & DEMO



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JMLS ACTD GOVT T&E



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TRANSITION UPDATE

Four remaining T&E efforts with prototype hardware located at Little Creek

-- Assembly and disassembly in SS3

Awaiting weather conditions

-- RRDF Assembly/Structural integrity in SS3

RRDF platform deployed 15-17 Dec 00

Wave conditions up to SS4

Platform survived intact, some structural damage.

-- Ship Interface Tests

MPF ship MV LUMMUS tests 11-12 Jan 01

RRDF successful, SS1

CF successful, SS1

-- Overboarding

WT overboarding successful, SS2

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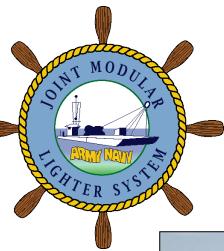
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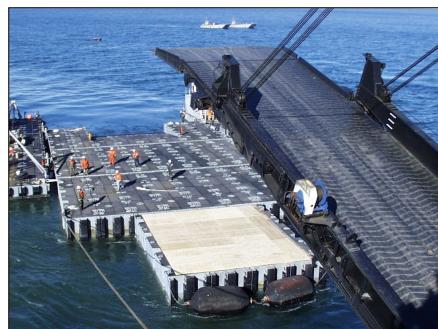
TRANSITION T&E



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TRANSITION T&E

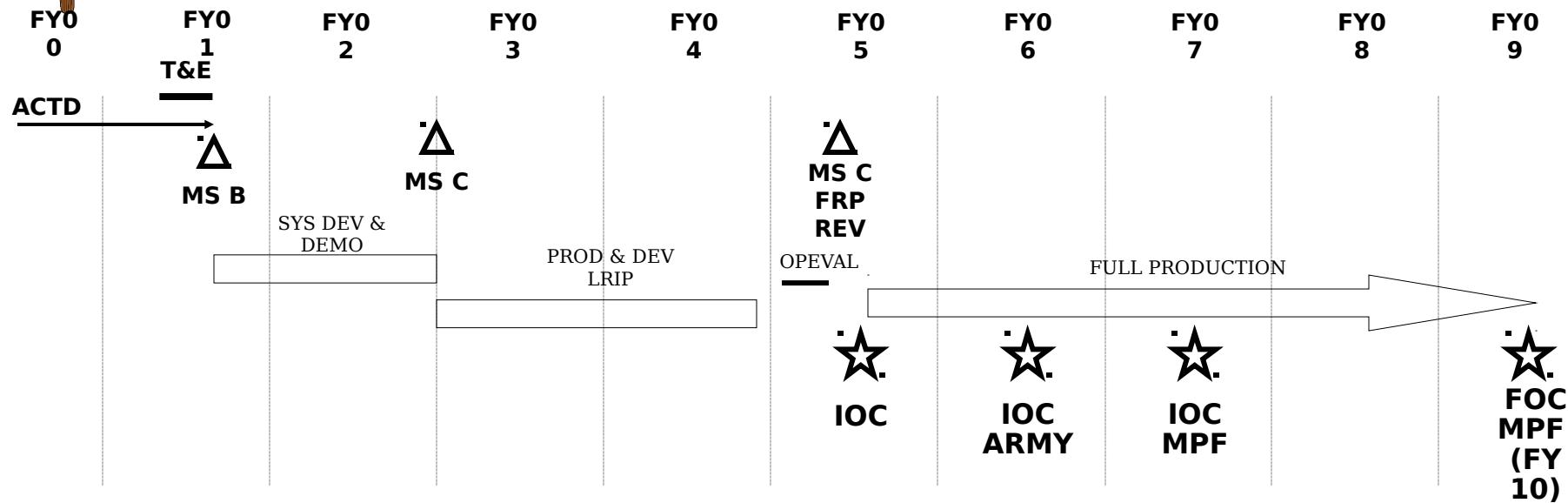


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ACQUISITION STATUS



Acquisition Program to begin following completion of Transition. (April 01)

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ACQUISITION STATUS

- ◆ **24' Composite module design in process. Feasibility decision by March 01. (NSWC-CD)**
- ◆ **24' Steel module design in process (5 months) Manufacture 2 units for test by July 01. (NFESC / USCG Shipyard)**
- ◆ **Propulsion plant evaluation in process. Estimate operational testing of alternatives by September 01. (NSWC-PHIL)**
- ◆ **PM Office staffing on schedule.**
- ◆ **Program documentation development on schedule for Milestone B.**



ACQUISITION PROGRAM SCHEDULE

ID	Task Name	Duration	Start	Finish	2001		2002		2003		2004		2005		2006		
					H2	H1	H2										
1	Steps to IOC	1190 days	12/11/00	7/1/05													
2	Transition to Milestone B	101 days	12/11/00	4/30/01													
3	Complete SS3 T&E	44 days	1/1/01	3/1/01													
4	24-Foot Module Design	81 days	12/11/00	4/2/01													
5	Prepare Acquisition Documentation	81 days	12/11/00	4/2/01													
6	MS B Decision Brief	1 day	4/30/01	4/30/01													
7	MS B System Development and Demonstration	395 days	4/30/01	11/1/02													
8	Major Equipment Alternative Evaluation	263 days	4/30/01	5/1/02													
9	Complete 24-Foot Module Effort	263 days	4/30/01	5/1/02													
10	Update Acquisition Documentation	395 days	4/30/01	11/1/02													
11	LRIP RFP Development (w/options)	263 days	4/30/01	5/1/02													
12	Release RFP/Review Bids	110 days	5/1/02	10/1/02													
13	MS C Decision Brief	1 day	11/1/02	11/1/02													
14	MS C Production and Development (LRIP)	686 days	11/15/02	7/1/05													
15	Award LRIP Contract (w/options)	0 days	11/15/02	11/15/02													
16	Contract Performance	512 days	11/15/02	11/1/04													
17	Operational Test and Evaluation	165 days	11/15/04	7/1/05													
18	Full Rate Production Decision Review (IOC Met)	0 days	7/1/05	7/1/05													

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GOVERNMENT SUPPORT ACTIVITIES

ARMY PARTICIPATION

- ODCSOPS
- ODCSLOG
- 7th TRANS CREEK
- CASCOM CARDEROCK
- ARMY TEST CENTER
- TACOM PHILADELPHIA

NAVY PARTICIPATION

- NFESC
- SLC
- ACB2 LITTLE
- NSWCCD
- NSWCCD SUFFOLK
- NSWCCD
- OPNAV N42

and

MILITARY SEALIFT COMMAND
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QUESTIONS??

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